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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2019-09-12-32 **Date: 08-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Suryavamshi Layout Main Cross Roads in Chowdeshwari Ward No.02.
Agency	:	Sri. N Thirunagendra , S/O Narayanaswamy , No 184, Bestara Street, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/46/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-07-19
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	05-07-19
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.76	–
2	Finess by Air permeablity method (m^2/kg,Min)	292.1	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.0%	Not specified
5	Initial Setting time	155 minutes	Not less than 30 minutes
6	Final Setting time	270 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1mm	Not more than 10 mm

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2019-09-12-32** **Date: 08-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Suryavamshi Layout Main Cross Roads in Chowdeshwari Ward No.02.
Agency	:	Sri. N Thirunagendra , S/O Narayanaswamy , No 184, Bestara Street, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/46/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	04-07-19
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	04-07-19

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	244	244	1.6	98.4	90-100
3	20 mm	5432	5676	37.8	62.2	30-70
4	10 mm	4332	10008	66.7	33.3	10-35
5	4.75 mm	4654	14662	97.7	2.3	0-5
6	Pan	338	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	CP-2019-09-12-32	**Date: 06-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.	
Address	:	Yelahanka Sub Division, BBMP, Bangalore.	
Project Name	:	Improvements to Roads and Drains at Suryavamshi Layout Main Cross Roads in Chowdeshwari Ward No.02.	
Agency	:	Sri. N Thirunagendra , S/O Narayanaswamy , No 184, Bestara Street, Yelahanka, Bangalore-64.	
Customer Reference	:	EE(YNK.D)E-PMT-09/W.O/46/2019-20	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	04-07-19	
Sample Type/ Size	:	20mm down size coarse aggregate	
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties	
Date of test	:	04-07-19	

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	245	245	4.9	95.1	90-100
3	10 mm	2560	2805	56.1	43.9	25-55
4	4.75 mm	2033	4838	96.8	3.2	0-10
5	Pan	162	5000	100	0	–

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2019-09-12-32 **Date: 06-07-19**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Suryavamshi Layout Main Cross Roads in Chowdeshwari Ward No.02.

Agency : Sri. N Thirunagendra , S/O Narayanaswamy , No 184, Bestara Street, Yelahanka, Bangalore-64.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/46/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 04-07-19

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 04-07-19

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	27	27	2.7	97.3	90-100	90-100	90-100	95-100
3	2.36 mm	55	82	8.2	91.8	60-95	75-100	85-100	95-100
4	1.18 mm	239	321	32.1	67.9	30-70	55-90	75-100	90-100
5	600 micron	205	526	52.6	47.4	15-34	35-59	60-79	80-100
6	300 micron	203	729	72.9	27.1	5-20	8-30	12-40	15-50
7	150 micron	191	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST RESULTS OF STEEL

Lab ID	:	**CP-2019-09-12-32** **Date: 10-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Suryavamshi Layout Main Cross Roads in Chowdeshwari Ward No.02.
Agency	:	Sri. N Thirunagendra , S/O Narayanaswamy , No 184, Bestara Street, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/46/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-07-19
Sample Type	:	Sunvik
Reference to BIS codes	:	IS 1786-2008, IS:1608-2005(RA 2011), IS 1599-2012.
Date of test:	:	09-07-19

Sl.No	Identification of sample	Grade of the sample	Diameter of the steel bar	Weight of the sample	Yield stress	Tensile strength	Elongation	Bend test	Rebend test
			(mm)	(kg/m)	(N/mm2)	(N/mm2)	(%)		
1	Sunvik	Fe500	8	0.391	512	652	20.0%	Satisfactory	Satisfactory
2	Sunvik	Fe500	10	0.616	528	672	20.0%	Satisfactory	Satisfactory
3	Sunvik	Fe500	12	0.888	544	668	20.0%	Satisfactory	Satisfactory

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TEST REPORT OF PRECAST COVER SLAB

Lab ID	:	**CP-2019-09-12-32** **Date: 20-07-19**
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Suryavamshi Layout Main Cross Roads in Chowdeshwari Ward No.02.
Agency	:	Sri. N Thirunagendra , S/O Narayanaswamy , No 184, Bestara Street, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/46/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-07-19
Sample Type /Size	:	Precast Cover Slab(250 mm)
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete
Date of test	:	16/07/2019

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	200.51	250.48	3.116	31570	240.9	7.6	7.1	8.9
2	Cover Slab-2	200.49	250.52	3.122	31564	242.3	7.7	7.1	8.9
3	Cover Slab-3	200.50	250.51	3.118	31567	241.5	7.7	7.1	8.9

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-09-12-32 **Date: 18/07/2019**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Suryavamshi Layout Main Cross Roads in Chowdeshwari Ward No.02.

Agency : Sri. N Thirunagendra , S/O Narayanaswamy , No 184, Bestara Street, Yelahanka, Bangalore-64.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/46/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-07-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	11/07/2019	18/07/2019	150.35 X 149.77 X 149.31	22519	8.106	420.3	18.7	18.6
2	Drain Bottom Slab Concrete	M20	11/07/2019	18/07/2019	151.44 X 151.71 X 151.62	22975	8.570	423 9	18.4	
3	Drain Bottom Slab Concrete	M20	11/07/2019	18/07/2019	151.93 X 151.88 X 151.27	23075	8.482	430.4	18.7	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-09-12-32 **Date: 18/07/2019**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Suryavamshi Layout Main Cross Roads in Chowdeshwari Ward No.02.

Agency : Sri. N Thirunagendra , S/O Narayanaswamy , No 184, Bestara Street, Yelahanka, Bangalore-64.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/46/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-07-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	11/07/2019	18/07/2019	151.54 X 150.20 X 151.74	22760	8.106	417.3	18.3	18.2
2	Drain Bottom Slab Concrete	M20	11/07/2019	18/07/2019	150.04 X 151.99 X 150.83	22805	8.570	413.5	18.1	
3	Drain Bottom Slab Concrete	M20	11/07/2019	18/07/2019	150.06 X 151.94 X 149.67	22799	8.482	414.0	18.2	

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-09-12-32 **Date: 18/07/2019**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Suryavamshi Layout Main Cross Roads in Chowdeshwari Ward No.02.

Agency : Sri. N Thirunagendra , S/O Narayanaswamy , No 184, Bestara Street, Yelahanka, Bangalore-64.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/46/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-07-19

Customer ID : Drain Bottom Slab Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Bottom Slab Concrete	M20	11/07/2019	18/07/2019	149.10 X 151.88 X 150.79	22645	8.106	424.1	18.7	18.7
2	Drain Bottom Slab Concrete	M20	11/07/2019	18/07/2019	149.62 X 150.27 X 149.19	22483	8.570	420.7	18.7	
3	Drain Bottom Slab Concrete	M20	11/07/2019	18/07/2019	150.68 X 151.12 X 149.09	22771	8.482	423.0	18.6	

Note:

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-09-12-32 **Date: 23/07/2019**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Suryavamshi Layout Main Cross Roads in Chowdeshwari Ward No.02.

Agency : Sri. N Thirunagendra , S/O Narayanaswamy , No 184, Bestara Street, Yelahanka, Bangalore-64.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/46/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-07-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	16/07/2019	23/07/2019	149.23 X 149.26 X 151.10	22273	8.578	403.4	18.1	18.5
2	Drain Side Wall Concrete	M20	16/07/2019	23/07/2019	149.03 X 149.39 X 150.08	22264	8.445	415.7	18.7	
3	Drain Side Wall Concrete	M20	16/07/2019	23/07/2019	149.92 X 150.73 X 150.68	22597	8.288	419.6	18.6	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 23/07/2019

Lab ID	:	CP-2019-09-12-32
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Suryavamshi Layout Main Cross Roads in Chowdeshwari Ward No.02.
Agency	:	Sri. N Thirunagendra , S/O Narayanaswamy , No 184, Bestara Street, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/46/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-07-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5
Date of test	:	23/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	16/07/2019	23/07/2019	150.96 X 150.35 X 150.15	22696	8.578	414.6	18.3	18.4
2	Drain Side Wall Concrete	M20	16/07/2019	23/07/2019	150.24 X 151.85 X 150.36	22814	8.445	412.3	18.1	
3	Drain Side Wall Concrete	M20	16/07/2019	23/07/2019	149.88 X 151.40 X 150.05	22691	8.288	427.9	18.9	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
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Samples will be disposed after 90 days from the date of issue of test certificate

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FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

AE-2 A.E.E

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-09-12-32 **Date: 23/07/2019**

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Suryavamshi Layout Main Cross Roads in Chowdeshwari Ward No.02.

Agency : Sri. N Thirunagendra , S/O Narayanaswamy , No 184, Bestara Street, Yelahanka, Bangalore-64.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/46/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-07-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	16/07/2019	23/07/2019	149.01 X 149.80 X 149.43	22322	8.578	406.9	18.2	18.6
2	Drain Side Wall Concrete	M20	16/07/2019	23/07/2019	149.98 X 151.83 X 149.43	22771	8.445	427.4	18.8	
3	Drain Side Wall Concrete	M20	16/07/2019	23/07/2019	151.06 X 150.35 X 151.03	22712	8.288	424.4	18.7	

Note:

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Authorized Signatory
Quality Manager

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****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2019-09-12-32

Date: 23/07/2019

Customer : Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.

Address : Yelahanka Sub Division, BBMP, Bangalore.

Project Name : Improvements to Roads and Drains at Suryavamshi Layout Main Cross Roads in Chowdeshwari Ward No.02.

Agency : Sri. N Thirunagendra , S/O Narayanaswamy , No 184, Bestara Street, Yelahanka, Bangalore-64.

Customer's Reference : EE(YNK.D)E-PMT-09/W.O/46/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-07-19

Customer ID : Drain Side Wall Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 23/07/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	16/07/2019	23/07/2019	150.63 X 149.87 X 150.50	22576	8.578	428.2	19.0	18.8
2	Drain Side Wall Concrete	M20	16/07/2019	23/07/2019	151.37 X 149.44 X 150.49	22622	8.445	419.1	18.5	
3	Drain Side Wall Concrete	M20	16/07/2019	23/07/2019	149.46 X 150.84 X 150.71	22545	8.288	426.9	18.9	

Note:

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2019-09-12-32
Customer	:	Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore.
Address	:	Yelahanka Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Roads and Drains at Suryavamshi Layout Main Cross Roads in Chowdeshwari Ward No.02.
Agency	:	Sri. N Thirunagendra , S/O Narayanaswamy , No 184, Bestara Street, Yelahanka, Bangalore-64.
Customer's Reference	:	EE(YNK.D)E-PMT-09/W.O/46/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-07-19
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	13/08/2019

Date: 13/08/2019

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M20	16/07/2019	13/08/2019	150.91 X 150.59 X 150.15	22725	8.249	529.7	23.3	23.1
2	Drain Side Wall Concrete	M20	16/07/2019	13/08/2019	150.58 X 149.43 X 150.64	22501	8.816	510.9	22.7	
3	Drain Side Wall Concrete	M20	16/07/2019	13/08/2019	151.87 X 149.38 X 151.21	22686	8.860	530.9	23.4	

Note:
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Quality Manager

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